

**CONTROL OF A/L RATIOS IN VACUUM ASSIST
VAPOR RECOVERY DISPENSERS**

Abstract of the Disclosure

5 The air-to-liquid (A/L) ratio in vacuum assist vapor recovery
dispensers of fueling systems is controlled by utilizing an in-station
diagnostics (ISD) system interfaced with the dispenser or a dispenser
diagnostics system. Diagnostics systems monitor the performance of
the vapor recovery system according to a number of variables. In one
embodiment, a diagnostics system is configured to monitor the A/L ratio
10 of each dispensing event using a flow meter placed in the vapor line and
a fluid meter placed in the fuel supply line.